United States Patent [19]

[54] ENZYME PRODUCT AND METHOD OF

Haarasilta et al.

[11] Patent Number:

4,990,343

[45] Date of Patent:

Feb. 5, 1991

		OUALITY OF BREAD
[75]	Inventors:	Sampsa Haarasilta, Kerava; Timo Pullinen, Vantaa; Seppo Vaisanen, Kerava; Ina Tammersalo-Karsten, Espoo, all of Finland
[73]	Assignee:	Cultor Ltd., Helsinki, Finland
[21]	Appl. No.:	341,389
[22]	Filed:	Apr. 21, 1989
[30]	Foreign	n Application Priority Data

[56] References Cited

U.S. PATENT DOCUMENTS

2,783,150	2/1957	Luther	426/61
3,512,992	5/1970	Cooke et al	426/20
4,803,084	2/1989	Shine	426/20

FOREIGN PATENT DOCUMENTS

0132289 1/1985 European Pat. Off. .

1216556 12/1970 United Kingdom .

OTHER PUBLICATIONS

Vol. 71, Chemical Abstracts, No. 11, 11/24/67, No. 100606K. Vol. 71, Chemical Abstracts, No. 11, 11/24/67, No. 100606M.

ABSTRACT

Primary Examiner—Donald E. Czaja
Assistant Examiner—Helen Pratt

Attorney, Agent, or Firm-Baker & McKenzie

[57]

The invention relates to a method of improving the properties of dough and the quality of bread by adding to the dough, dough ingredients, ingredient mixture or dough additives or additive mixture an enzyme preparation comprising hemicellulose and/or cellulose degrading enzymes and glucose oxidase, or sulphydryl oxidase and glucose oxidase, the enzyme preparation being preferably used in combination with lecithin. The enzyme preparation of the invention has an advantageous effect on the processability of the dough and the properties of the final bakery product. The combination of the enzyme preparation of the invention and lecithin can advantageously replace bromate conventionally used as a baking additive.

20 Claims, No Drawings